

App. No.:
09/383,828

Applicant:

Eryurek et al.

Filing Date

Group Art:

August 27, 1999

2855

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PATENT & TRADEMARK OFFICE

INFORMATION FOR DISCLOSURE STATEMENT

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
PK	AA	4,249,164	2/3/81	Tivy	340	870.3
	AB	5,469,749	11/28/95	Shimada et al.	73	861.47
	AC	6,263,487	7/17/01	Stripf et al.	717	1
	AD	6,298,377	10/2/01	Hartikainen et al.	709	223
	AE					
	AF					
	AG					
	AH					
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	AL					

FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Class	Sub Class	Translation Yes No
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FORM PTO-1449	Atty. Docket No.: R11.12-0685	Appl. No.: 09/383,828
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant:	
	Eryurek et al.	
	Filing Date	Group Art:
	August 27, 1999	2855

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
PK	AA	3,855,858	12/24/74	Cushing	73	194
	AB	5,388,465	2/14/95	Okaniwa et al.	73	861.17
	AC	5,560,246	10/1/96	Bottinger et al.	73	861.15
	AD	5,880,376	3/9/99	Sai et al.	73	861.08
	AE	6,014,902	1/18/00	Lewis et al.	73	861.12
	AF	6,038,579	3/14/00	Sekine	708	400
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FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
PK	AM	11083575	3/26/99	Japan		(Abstract Only)
PK	AN	60174915	9/9/85	Japan		(Abstract Only)
PK	AO	59163520	9/14/84	Japan		(Abstract Only)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PK	AP	"Notification of Transmittal of the International Search Report or the Declaration" for PCT/US01/40791.
PK	AQ	"Notification of Transmittal of the International Search Report or the Declaration" for PCT/US01/40782.
	AR	

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Paul H.

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Applicant:

Eryurek et al.

Filing Date

Group Art.

August 27, 1999

2855

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
DL	AA	6,016,523	1/18/00	Zimmerman et al.	710	63
DL	AB	6,052,655	4/18/00	Kobayashi et al.	702	184
	AC					
	AD					
	AE					
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FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
AL						
AM						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AN	IEEE Transactions on Magnetism, Vol. 34, No. 5, September 1998, "Optical Design of the Coils of an Electromagnetic Flow Meter," pages 2563-2566
AO	IEEE Transactions on Magnetism, Vol. 30, No. 2, March 1994, "Magnetic Fluid Flow Meter for Gases," pages 936-938
AP	IEEE Instrumentation and Measurement, "New approach to a main error estimation for primary transducer of electromagnetic flow meter," pages 1093-1097
AQ	"Additional Information From Flowmeters via Signal Analysis," by J.E. Amadi-Echendu and E.H. Higham, pages 187-193

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
PJL	AA 4,818,994	4/4/89	Orth et al.	340	870.21	
DA	AB 6,139,180	10/31/00	Usher et al.	374	1	
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
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		Evren Eryurek et al.
		Filing Date
		Group
		August 27, 1999

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
PK	AA	Re.29,383	9/6/77	Gallatin et al.	137	14
	AB	3,096,434	7/2/63	King	235	151
	AC	3,404,264	10/1/68	Kugler	235	194
	AD	3,701,280	10/31/72	Stroman	73	194
	AE	4,058,975	11/22/77	Gilbert et al.	60	39.28
	AF	4,337,516	6/29/82	Murphy et al.	364	551
	AG	4,517,468	5/14/85	Kemper et al.	290	52
	AH	4,635,214	1/6/87	Kasai et al.	364	55
	AI	4,644,479	2/17/87	Kemper et al.	364	55
	AJ	4,649,515	3/10/87	Thompson et al.	364	90

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
PK	AK	64001914	1/6/89	Japan (Abstract)		
PK	AL	07234988	9/5/95	Japan (Abstract)		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PK	AM	"Sensor and Device Diagnostics for Predictive and Proactive Maintenance", by B. Boynton, A Paper Presented at the Electric Power Research Institute - Fossil Plant Maintenance Conference in Baltimore, Maryland, July 29-August 1, 1996, pgs. 50-1 - 50-6.
PK	AN	"Smart Field Devices Provide New Process Data, Increase System Flexibility," by Mark Boland, I&CS, November 1994, pgs. 45-51.
PK	AO	"Wavelet Analysis of Vibration, Part I: Theory", by D.E. Newland, Journal of Vibration and Acoustics, Vol. 116, October 1994, pgs. 409-416.
PK	AP	"Wavelet Analysis of Vibration, Part 2: Wavelet Maps," by D.E. Newland, Journal of Vibration and Acoustics, Vol. 116, October 1994, pgs. 417-425.

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Applicant: Evren Eryurek et al.		
Filing Date August 27, 1999	Group Art: 2855	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>PK</i>	AQ	4,707,796	11/17/87	Calabro et al.	364	552
	AR	4,777,585	10/11/88	Kokawa et al.	364	164
	AS	4,831,564	5/16/89	Suga	364	551-01
	AT	4,873,655	10/10/89	Kondraske	364	551-01
	AU	4,907,167	3/6/90	Skeirik	364	551-01
	AV	4,924,418	5/8/90	Backman et al.	364	551-01
	AW	4,964,125	10/16/90	Kim	371	15.1
	AX	4,992,965	2/12/91	Holter et al.	364	551-01
<i>PK</i>	AY	5,005,142	4/2/91	Lipchak et al.	364	550
	AZ	5,081,598	1/14/92	Bellows et al.	364	550

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	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>PK</i>	BA	DE 40 08 560 A1	9/20/90	Germany		X
	BB	59-116811	7/5/84	Japan		X (Abstract)
	BC	59-211196	11/29/84	Japan		Title and Claim
<i>PK</i>	BD	60000507	1/5/85	Japan		X (Abstract)
	BE	8-54923	2/27/96	Japan		X (Abstract)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>PK</i>	BF	"Field-based Architecture is Based on Open Systems, Improves Plant Performance", by P. Cleaveland, I&CS, August 1996, pgs. 73-74.
<i>PK</i>	BG	"Fuzzy Logic and Neural Network Applications to Fault Diagnosis", by P. Frank et al., International Journal of Approximate Reasoning, (1997), pgs. 68-88.
EXAMINER: <i>me</i>		DATE CONSIDERED: 11/2/02

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		Evren Eryurek et al.
		Filing Date
		Group Art:
August 27, 1999		2855

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
PH	BH	5,089,984	2/18/92	Struger et al.	395	650
	BI	5,099,436	3/24/92	McCown et al.	364	550
	BJ	5,103,409	4/7/92	Shimizu et al.	364	556
	BK	5,111,531	5/5/92	Grayson et al.	395	23
	BL	5,121,467	6/9/92	Skeirik	395	11
	BM	5,122,976	6/16/92	Bellows et al.	364	550
	BN	5,130,936	7/14/92	Sheppard et al.	364	551.01
	BO	5,134,574	7/28/92	Beaverstock et al.	364	551.01
	BP	5,142,612	8/25/92	Skeirik	395	11
	BQ	5,148,378	9/15/92	Shibayama et al.	364	551.07
	BR	5,167,009	11/24/92	Skeirik	395	27

FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Class	Sub Class	Translation Yes No
BS 60-131495	7/13/85	Japan			X (Abstract)
BT 58-129316	8/2/83	Japan			X (Abstract)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BU	"A Fault-Tolerant Interface for Self-Validating Sensors", by M.P. Henry, <u>Colloquium</u> , pgs. 3/1-3/2 (November 1990).
BV	"The Implications of Digital Communications on Sensor Validation", by M. Henry et al., <u>Report No. QUEL 1912/92</u> , (1992).
BW	"Keynote Paper: Hardware Compilation-A New Technique for Rapid Prototyping of Digital Systems-Applied to Sensor Validation", by M.P. Henry, <u>Control Eng. Practice</u> , Vol. 3, No. 7., pgs. 907-924, (1995).

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		Evren Eryurek et al.
		Filing Date
		August 27, 1999
		Group Art: 2855

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
P11	BX	5,193,143	3/9/93	Kaemmerer et al.	395	51
	BY	5,197,114	3/23/93	Skeirik	395	22
	BZ	5,197,328	3/30/93	Fitzgerald	73	168
	CA	5,212,765	5/18/93	Skeirik	395	11
	CB	5,214,582	5/25/93	Gray	364	424.03
	CC	5,224,203	6/29/93	Skeirik	395	22
	CD	5,235,527	8/10/93	Ogawa et al.	364	571.05
	CE	5,265,031	11/23/93	Malczewski	364	497
	CF	5,274,572	12/28/93	O'Neill et al.	364	550
	CG	5,282,131	1/25/94	Rudd et al.	364	164

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
P11	CH	5-122768	5/18/93	Japan		X (Abstract)
P11	CI	7-63586	3/10/95	Japan		X (Abstract)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

P11	CJ	"Neural Networks for Sensor Validation and Plant Monitoring," by B. Upadhyaya, <u>International Fast Reactor Safety Meeting</u> , August 12-16, 1990, pgs. 2-10.
P11	CK	"Intelligent Behaviour for Self-Validating Sensors", by M.P. Henry, <u>Advances In Measurement</u> , pgs. 1-7, (May 1990).
P11	CL	"Integration of Multiple Signal Validation Modules for Sensor Monitoring," by B. Upadhyaya et al., <u>Department of Nuclear Engineering</u> , July 8, 1990, pgs. 1-6.

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	Filing Date August 27, 1999	Group Art: 2855

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
PH	CM 5,282,261	1/25/94	Skeirik	395	22	
	CN 5,293,585	3/8/94	Morita	395	22	
	CO 5,305,230	4/19/94	Matsumoto et al.	364	155	
	CP 5,311,421	5/10/94	Nomura et al.	364	157	
	CQ 5,333,240	7/26/94	Matsumoto et al.	395	22	
	CR 5,349,541	9/20/94	Alexandro, Jr. et al.	364	57	
	CS 5,357,449	10/18/94	Oh	364	551.01	
	CT 5,361,628	11/8/94	Marko et al.	73	11	
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FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
PH	CV 2-5105	1/10/90	Japan			X (Abstract)
	CW 62-30915	2/9/87	Japan			X (Abstract)
	CX 59-211896	11/30/84	Japan			X (Abstract)
	CY 60-76619	5/1/85	Japan			X (Abstract)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PH	CZ	"An Integrated Architecture For Signal Validation in Power Plants," by B.R. Upadhyaya et al., <u>Third IEEE International Symposium on Intelligent Control</u> , August 24-26, 1988, pgs. 1-6.
	DA	"Neural Networks for Sensor Validation and Plantwide Monitoring," by E. Eryurek, 1992.
	DB	"Programmable Hardware Architectures for Sensor Validation", by M.P. Henry et al., <u>Control Eng. Practice</u> , Vol. 4, No. 10., pgs. 1339-1354, (1996).

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Filing Date August 27, 1999		Group Art: 2855

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PK	DC	5,367,612	11/22/94	Bozich et al.	395 22	
	DD	5,384,699	1/24/95	Levy et al.	364 413.13	
	DE	5,394,341	2/28/95	Kepner	364 551.01	
	DF	5,408,406	4/18/95	Mathur et al.	364 163	
	DG	5,408,586	4/18/95	Skeirik	395 23	
	DH	5,414,645	5/9/95	Hirano	364 551.01	
	DI	5,419,197	5/30/95	Ogi et al.	73 659	
	DJ	5,430,642	7/4/95	Nakajima et al.	364 148	
	DK	5,467,355	11/14/95	Umeda et al.	364 571.04	
PK	DL	5,469,735	11/28/95	Watanabe	73 118.1	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
PK	DM	64-1914	1/6/89	Japan		X (Abstract)
	DN	8-166309	6/25/96	Japan		X (Abstract)
	DO	0 624 847 A1	11/17/94	EPO		X (Abstract)
	DP	WO 94/25933	11/10/94	WIPO		X (Abstract)
	DQ	WO 97/21157	6/12/97	WIPO		X (Abstract)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PK	DR	"Application of Neural Computing Paradigms for Signal Validation," by B.R. Upadhyaya et al., Department of Nuclear Engineering, pgs. 1-18.
PK	DS	"Sensor Validation for Power Plants Using Adaptive Backpropagation Neural Network," IEEE Transactions on Nuclear Science, Vol. 37, No. 2, by E. Eryurek et al. April 1990, pgs. 1040-1047.
PK	DT	"A Standard Interface for Self-Validating Sensors, by M.P. Henry et al., Report No. QUEL 1884/91, (1991).

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PK	DU	5,486,996	1/23/96	Samad et al.	364	152
	DV	5,488,697	1/30/96	Kaemmerer et al.	395	51
	DW	5,511,004	4/23/96	Dubost et al.	364	551.01
	DX	5,548,528	8/20/96	Keeler et al.	364	497
	DY	5,561,599	10/1/96	Lu	364	164
	DZ	5,570,300	10/29/96	Henry et al.	364	551.01
	EA	5,572,420	11/5/96	Lu	364	151
	EB	5,640,491	6/17/97	Bhat et al.	395	2855
	EC	5,671,335	9/23/97	Davis et al.	395	2855
	ED	5,675,504	10/7/97	Serodes et al.	364	497
	EE	5,704,011	12/30/97	Hansen et al.	395	2855

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PK	EF	"Development and Application of Neural Network Algorithms For Process Diagnostics," by B.R. Upadhyaya et al., <u>Proceedings of the 29th Conference on Decision and Control</u> , 1990, pgs. 3277-3282.
	EG	"Fuzzy Logic and Artificial Neural Networks for Nuclear Power Plant Applications," by R.C. Berkan et al., <u>Proceedings of the American Power Conference</u> .
	EH	"Parallel, Fault-Tolerant Control and Diagnostics System for Feedwater Regulation in PWRs, by E. Eryurek et al., <u>Proceedings of the American Power Conference</u> .
	EI	"Signal Processing, Data Handling and Communications: The Case for Measurement Validation", by M.P. Henry, <u>Department of Engineering Science, Oxford University</u> .

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<i>PK</i>	EJ	5,781,878	7/14/98	Mizoguchi et al.	701	100
	EK	5,053,815	10/1/91	Wendell	355	200
	EL	5,265,222	11/23/93	Nishiya et al.	395	3
	EM	5,394,543	2/28/95	Hill et al.	395	575
	EN	5,440,478	8/8/95	Fisher et al.	364	188
	EO	4,642,782	2/10/87	Kemper et al.	364	550
	EP	5,924,086	7/13/99	Mathur et al.	706	25
	EQ	4,934,196	6/19/90	Romano	73	861.38
	ER	5,940,290	8/17/99	Dixon	364	138

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	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>PK</i>	ES	8-136386	5/31/96	Japan		X (Abstract)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>PK</i>	ET	"Software-Based Fault-Tolerant Control Design for Improved Power Plant Operation," <u>IEEE/IFAC Joint Symposium on Computer-Aided Control System Design</u> , March 7-9, 1994 pgs. 585-590.
	EU	"Using Artificial Neural Networks to Identify Nuclear Power Plant States," by Israel E. Alguindigue et al., pgs. 1-4.
	EV	"Taking Full Advantage of Smart Transmitter Technology Now," by G. Orrison, <u>Control Engineering</u> , Vol. 42, No. 1, January 1995.
	EW	"Automated Generation of Nonlinear System Characterization for Sensor Failure Detection," by B.R. Upadhyaya et al., <u>ISA</u> , 1989 pgs. 269-274.
	EX	"Application of Neural Networks for Sensor Validation and Plant Monitoring," by B. Upadhyaya et al., <u>Nuclear Technology</u> , Vol. 97, No. 2, Feb. 1992 pgs. 170-176.
	EY	"Detecting Blockage in Process Connections of Differential Pressure Transmitters", by E. Taya et al., <u>SICE</u> , 1995, pgs. 1605-1608.

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FORM PTO-1449	Atty. Docket No.: R11.12-0685	Appl. No.: 09/383,828
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor: Evren Eryildirim	
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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing If Appr
FA	3,468,164	09/23/69	Sutherland	73	343	
FB	3,590,370	06/29/71	Fleischer	324	51	
FC	3,688,190	08/29/72	Blum	324	61R	
FD	3,691,842	09/19/72	Akeley	73	398C	
FE	3,973,184	08/03/76	Raber	324	51	
FF	4,099,413	07/11/78	Ohte et al.	73	359	
FG	4,102,199	07/25/78	Talpouras	73	362	
FH	4,122,719	10/31/78	Carlson et al.	73	342	
FI	4,250,490	02/10/81	Dahlke	340	870.37	
FJ	4,530,234	07/23/85	Cullick et al.	73	53	
FK	4,571,689	02/18/86	Hildebrand et al.	364	481	
FL	4,736,367	05/05/88	Wroblewski et al.	370	85	
FM	4,841,286	06/20/89	Kummer	340	653	
FN	4,939,753	07/03/90	Olson	375	107	
FO	4,988,990	01/29/91	Warrior	340	25.5	
FP	5,043,862	08/27/91	Takahashi et al.	364	162	
FQ	5,067,099	11/19/91	McCown et al.	364	550	
FR	5,098,197	03/24/92	Shepard et al.	374	120	
FS	5,122,794	06/16/92	Warrior	340	825.2	
FT	5,137,370	08/11/92	McCulloch et al.	374	173	
FU	5,143,452	09/01/92	Maxedon et al.	374	170	
FV	5,175,678	12/29/92	Frerichs et al.	364	148	
FW	5,228,780	7/20/93	Shepard et al.	374	175	
FX	5,282,261	1/25/94	Skeirik	395	22	
FY	5,303,181	4/12/94	Stockton	365	96	

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LIST OF PATENTS AND PUBLICATIONS APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Name of Inventor Evren Ervarek	
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	August 27, 1999	2855

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>PK</i>	FZ	5,317,520	5/31/94	Castle	364	482
	GA	5,327,357	7/5/94	Feinstein et al.	364	502
	GB	5,365,423	11/15/94	Chand	364	140
	GC	5,386,373	1/31/95	Keller et al.	364	577
	GD	5,394,543	2/28/95	Hill et al.	395	575
	GE	5,404,064	4/4/95	Mermelstein et al.	310	319
	GF	5,469,070	11/21/95	Koluvek	324	713
	GG	5,469,156	11/21/95	Kogura	340	870.38
	GH	5,481,199	01/02/96	Anderson et al.	324	705
	GI	5,483,387	01/09/96	Bauhahn et al.	359	885
	GJ	5,485,753	01/23/96	Burns et al.	73	720
	GK	5,489,831	02/06/96	Harris	318	701
	GL	5,495,769	05/03/96	Borden et al.	73	718
	GM	5,510,779	04/23/96	Maltby et al.	340	870.300
	GN	5,573,032	11/12/96	Lenz et al.	137	486
	GO	5,598,521	01/28/97	Kilgore et al.	395	326
	GP	5,600,148	02/04/97	Cole et al.	250	495.1
	GQ	5,623,605	04/22/97	Keshav et al.	395	200.17
	GR	5,661,668	08/26/97	Yemini et al.	364	550
	GS	5,665,899	07/09/97	Willcox	73	1.63
	GT	5,675,724	10/07/97	Beal et al.	395	182.02
	GU	5,705,978	01/06/98	Frick et al.	340	511
	GV	5,713,668	02/03/98	Lunghofer et al.	374	179
	GW	5,742,845	04/21/98	Wagner	395	831
	GX	5,752,008	05/12/98	Bowling	395	500

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U.S. PATENT DOCUMENTS

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✓	GY	5,764,891	06/09/98	Warrior	395	200.2
	GZ	5,801,689	09/01/98	Huntsman	345	329
	HA	5,805,442	09/08/98	Crater et al.	364	138
	HB	5,859,964	01/12/99	Wang et al.	395	185.01
	HC	5,887,978	03/30/99	Lunghofer et al.	374	179
	HD	5,923,557	07/13/99	Eidson	364	471.03
	HE	5,924,086	7/13/99	Mathur et al.	706	25
	HF	5,956,663	09/21/99	Eryurek et al.	702	183
	HG	5,970,430	10/19/99	Burns et al.	702	122
	HH	6,016,706	01/25/00	Yamamoto et al.	9	6
	HI	6,017,143	01/25/00	Eryurek et al.	700	51
	HJ	6,047,222	04/04/00	Burns et al.	700	79
	HK	6,047,220	04/04/00	Eryurek et al.	700	28
	HL	6,119,047	09/12/00	Eryurek et al.	700	28
	HM	6,199,018 B1	03/06/01	Quist et al.	702	34
	HN	5,347,843	09/20/94	Orr et al.	73	3
	HO	5,637,802	06/10/97	Frick et al.	73	724
	HP	5,680,109	10/21/97	Lowe et al.	340	608
	HQ	5,746,511	5/5/98	Eryurek et al.	374	2
	HR	5,828,567	10/27/98	Eryurek et al.	700	79
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✓	HT					

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HC	HU	09/169,873	10/12/98	Eryurek et al.		
	HV	09/175,832	10/19/98	Eryurek et al.		
	HW	09/257,896	02/25/99	Eryurek et al.		
	HX	09/303,869	05/03/99	Eryurek et al.		
	HY	09/335,212	06/17/99	Kirkpatrick et al.		
	HZ	09/360,473	07/23/99	Eryurek et al.		
	IA	09/369,530	08/06/99	Eryurek et al.		
	IB	09/384,876	8/27/99	Eryurek et al.		
	IC					
	ID	09/406,263	09/24/99	Kirkpatrick et al.		
	IE	09/409,098	09/30/99	Eryurek et al.		
	IF	09/409,114	09/30/99	Eryurek et al.		
	IG	09/565,604	05/04/00	Eryurek et al.		
	IH	09/576,450	05/23/00	David L. Wehrs		
	II	09/606,259	06/29/00	Evren Eryurek		
	IJ	09/616,118	07/14/00	Eryurek et al.		
	IK	09/627,543	07/28/00	Eryurek et al.		
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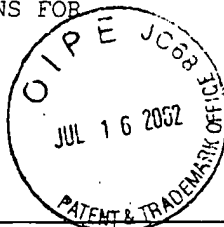
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FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
IR		WO 96/11389	04/18/96	WIPO			X
IS		WO 96/12993	05/02/96	WIPO			X
IT		WO 96/39617	12/12/96	WIPO			X
IU		WO 97/25603	07/17/97	WIPO			X
IV		WO 98/06024	02/12/98	WIPO			X
IW		WO 98/20469	05/14/98	WIPO			X
IX		0 122 622 A1	10/24/84	EPO			X
IY		0 413 814 A1	02/27/91	EPO			X
IZ		0 487 419 A2	05/27/92	EPO			X
JA		0 594 227 A1	04/27/94	EPO			X
JB		0 644 470 A2	03/22/95	EPO			X
JC		EP 0 825 506 A2	07/14/97	EPO			X
JD		EP 0 827 096 A2	09/01/97	EPO			X
JE		EP 0 838 768 A2	09/24/97	EPO			X
JF		DE 32 13 866 A1	10/27/83	Germany			X
JG		DE 35 40 204 C1	09/25/86	Germany			X (Abstract)
JH		DE 44 33 593 A1	06/01/95	Germany			X (Abstract)
JI		DE 195 02 499 A1	08/01/96	Germany			X (Abstract)
JJ		DE 296 00 609 U1	03/27/97	Germany			X
JK		DE 197 04 694 A1	08/14/97	Germany			X

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FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>PK</i>	JL	64-72699	03/17/89	Japan			X (Abstract)
	JM	06242192	09/02/94	Japan			X (Abstract)
	JN	2753592	03/06/98	Japan			X
	JO	10-232170	09/02/98	Japan			X
	JP	928,704	06/12/63	London			X
	JQ	1 534 280	11/29/78	Great Britian			X
	JR	2 310 346 A	08/20/97	United Kingdom			X
	JS	2 302 514	09/24/76	France			X
	JT	2 334 827	07/08/77	France			X (Abstract)
	JU	JP 07225530	05/1998	Japan			ABSTRACT ONLY
	JV	DE 43 43 747	06/1994	Germany			
	JW	WO 98/13677	04/1998	WIPO			
	JX	2712625	10/31/97	Japan			X
	JY	2712701	10/31/97	Japan			X
<i>↓</i>	JZ	08247076	09/24/96	Japan			ABSTRACT ONLY
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	Evren Eyyurek	
	Filing Date	Group Art:
	August 27, 1999	2855

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PK	KC	"A TCP/IP Tutorial" by, Socolofsky et al., Spider Systems Limited, January 1991 pp. 1-23.
PK	KD	"Approval Standards For Explosionproof Electrical Equipment General Requirements", Factory Mutual Research, Cl. No. 3615, March 1989, pp. 1-34.
PK	KE	"Approval Standard Intrinsically Safe Apparatus and Associated Apparatus For Use In Class I, II, and III, Division 1 Hazardous (Classified) Locations", Factory Mutual Research, Cl. No. 3610, October 1988, pp. 1-70.
PK	KF	"Automation On-line" by, Phillips et al., Plant Services, July 1997, pp. 41-45.
PK	KG	"Climb to New Heights by Controlling your PLCs Over the Internet" by, Phillips et al., Intech, August 1998, pp. 50-51.
PK	KH	"CompProcessor For Piezoresistive Sensors" MCA Technologies Inc. (MCA7707), pp. 1-8.
PK	KI	"Ethernet emerges as viable, inexpensive fieldbus", Paul G. Schreier, Personal Engineering, December 1997, p. 23-29.
PK	KJ	"Ethernet Rules Closed-loop System" by, Eidson et al., Intech, June 1998, pp. 39-42.
PK	KK	"Fieldbus Standard for Use in Industrial Control Systems Part 2: Physical Layer Specification and Service Definition", ISA-S50.02-1992, pp. 1-93.
PK	KL	"Fieldbus Standard for Use in Industrial Control Systems Part 3: Data Link Service Definition", ISA-S50.02-1997, Part 3, August 1997, pp. 1-159.
PK	KM	"Fieldbus Standard For Use in Industrial Control Systems Part 4: Data Link Protocol Specification, ISA-S50.02-1997, Part 4, August 1997, pp. 1-148.
PK	KN	"Fieldbus Support For Process Analysis" by, Blevins et al., Fisher-Rosemount Systems, Inc., 1995, pp. 121-128.
PK	KO	"Fieldbus Technical Overview Understanding FOUNDATION™ fieldbus technology", Fisher-Rosemount, 1998, pp. 1-23.
PK	KP	"Hypertext Transfer Protocol -- HTTP/1.0" by, Berners-Lee et al., MIT/LCS, May 1996, pp. 1-54.
PK	KQ	"Infranets, Intranets, and the Internet" by, Pradip Madan, Echelon Corp, Sensors, March 1997, pp. 46-50.
PK	KR	"Internet Technology Adoption into Automation" by, Fondl et al., Automation Business, pp. 1-5.
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	Group Art: 2855	
	JUL 16 2002 PATENT & TRADEMARK OFFICE	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PK	KS	"Internet Protocol Darpa Internet Program Protocol Specification" by, Information Sciences Institute, University of Southern California, RFC 791, September 1981, pp. 1-43.
PK	KT	"Introduction to Emit", emWare, Inc., 1997, pp. 1-22.
PK	KU	"Introduction to the Internet Protocols" by, Charles L. Hedrick, Computer Science Facilities Group, Rutgers University, October 3, 1988, pp. 1-97.
PK	KV	"Is There A Future For Ethernet in Industrial Control?", Miclot et al., Plant Engineering, October 1988, pp. 44-46, 48, 50.
PK	KW	LFM/SIMA Internet Remote Diagnostics Research Project Summary Report, Stanford University, January 23, 1997, pp. 1-6.
PK	KX	"Managing Devices with the Web" by, Howard et al., Byte, September 1997, pp. 45-64.
PK	KY	"Modular Microkernel Links GUI And Browser For Embedded Web Devices" by, Tom Williams, pp. 1-2.
PK	KZ	"PC Software Gets Its Edge From Windows, Components, and the Internet", Wayne Labs, I&CS, March 1997, pp. 23-32.
PK	LA	Proceedings Sensor Expo, Anaheim, California, Produced by Expocon Management Associates, Inc., April 1996, pp. 9-21.
PK	LB	Proceedings Sensor Expo, Boston, Massachusetts, Produced by Expocon Management Associates, Inc., May 1997, pp. 1-416.
PK	LC	"Smart Sensor Network of the Future" by, Jay Warrior, Sensors, March 1997, pp. 40-45.
PK	LD	"The Embedded Web Site" by, John R. Hines, IEEE Spectrum, September 1996, p. 23.
PK	LE	"Transmission Control Protocol: Darpa Internet Program Protocol Specification" Information Sciences Institute, September 1981, pp. 1-78.
PK	LF	"Advanced Engine Diagnostics Using Universal Process Modeling", by P. O'Sullivan et al., Presented at the 1996 SAE Conference on Future Transportation Technology, pgs. 1-9.
PK	LG	"On-Line Statistical Process Control for a Glass Tank Ingredient Scale," by R.A. Weisman, IFAC real Time Programming, 1985, pgs. 29-38.
PK	LH	"The Performance of Control Charts for Monitoring Process Variation," by C. Lowry et al., COMMUN. STATIS. - SIMULA., 1995, pgs. 409-437.
PK	LI	"A Knowledge-Based Approach for Detection and Diagnosis of Out-Of-Control Events in Manufacturing Processes," by P. Love et al., IEEE, 1989, pgs. 736-741.

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PK	LJ	"Advanced Engine Diagnostics Using Universal Process Modeling", by P. O'Sullivan, Presented at the 1996 SAE Conference on Future Transportation Technology, pgs. 1-9.
PK	LK	"Smart Temperature Measurement in the '90s", by T. Kerlin et al., <u>C&I</u> , (1990).
PK	LL	"In Situ Calibration of Nuclear Plant Platinum Resistance Thermometers Using Johnson Noise Methods," <u>EPRI</u> , June 1983.
PK	LM	"Johnson Noise Thermometer for High Radiation and High-Temperature Environments," by L. Oakes et al., <u>Fifth Symposium on Space Nuclear Power Systems</u> , January 1988, pgs. 2-23.
PK	LN	"Development of a Resistance Thermometer For Use Up to 1600°C", by M.J. de Groot et al., <u>CAL LAB</u> , July/August 1996, pgs. 38-41.
PK	LO	"Survey, Applications, And Prospects of Johnson Noise Thermometry," by T. Blalock et al., <u>Electrical Engineering Department</u> , 1981 pgs. 2-11.
PK	LP	"Noise Thermometry for Industrial and Metrological Applications at KFA Julich," by H. Brixy et al., <u>7th International Symposium on Temperature</u> , 1992.
PK	LQ	"Johnson Noise Power Thermometer and its Application in Process Temperature Measurement," by T.V. Blalock et al., <u>American Institute of Physics</u> 1982, pgs. 1249-1259.
PK	LR	"Tuned-Circuit Dual-Mode Johnson Noise Thermometers," by R.L. Shepard et al., April 1992.
PK	LS	"Tuned-Circuit Johnson Noise Thermometry," by Michael Roberts et al., <u>7th Symposium on Space Nuclear Power Systems</u> , January 1990.
PK	LT	"Development of a Long-Life, High-Reliability Remotely Operated Johnson Noise Thermometer," by R.L. Shepard et al., <u>ISA</u> , 1991, pgs. 77-84.
PK	LU	"Application of Johnson Noise Thermometry to Space Nuclear Reactors," by M.J. Roberts et al., Presented at the 6th Symposium on Space Nuclear Power Systems, January 9-12, 1989.
PK	LV	"A Decade of Progress in High Temperature Johnson Noise Thermometry," by T.V. Blalock et al., <u>American Institute of Physics</u> , 1982 pgs. 1219-1223.
PK	LW	"Detection of Hot Spots in Thin Metal Films Using an Ultra Sensitive Dual Channel Noise Measurement System," by G.H. Massiha et al., <u>Energy and Information Technologies in the Southeast</u> , Vol. 3 of 3, April 1989, pgs. 1310-1314.
PK	LX	"A New Method of Johnson Noise Thermometry", by C.J. Borkowski et al., <u>Rev. Sci. Instrum.</u> , Vol. 45, No. 2, (February 1974) pgs. 151-162.

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PK	LY	"In-Situ Response Time Testing of Thermocouples", <u>ISA</u> , by H.M. Hashemian et al., Paper No. 89-0056, pgs. 587-593, (1989).
PK	LZ	"Measurement of the Temperature Fluctuation in a Resistor Generating 1/F Fluctuation," by S. Hashiguchi, <u>Japanese Journal of Applied Physics</u> , Vol. 22, No. 5, Part 2, May 1983, pgs. L284-L286.
PK	MA	"Check of Semiconductor Thermal Resistance Elements by the Method of Noise Thermometry", by A. B. Kisilevskii et al., <u>Measurement Techniques</u> , Vol. 25, No. 3, March 1982, New York, USA, pgs. 244-246.
PK	MB	"Thermocouple Continuity Checker," IBM Technical Disclosure Bulletin, Vol. 20, No. 5, pages 1954 (October 1977).
PK	MC	"A Self-Validating Thermocouple," Janice C-Y et al., <u>IEEE Transactions on Control Systems Technology</u> , Vol. 5, No. 2, pp. 239-53 (March 1997).
PK	MD	<u>Instrument Engineers' Handbook</u> , Chapter IV entitled "Temperature Measurements," by T.J. Claggett, pp. 266-333 (1982).
PK	ME	"emWare's Releases EMIT 3.0, Allowing Manufacturers to Internet and Network Enable Devices Royalty Free," 3 pages, PR Newswire (November 4, 1998).
PK	MF	Warrior, J., "The IEEE P1451.1 Object Model Network Independent Interfaces for Sensors and Actuators," pp. 1-14, Rosemount Inc. (1997).
PK	MG	Warrior, J., "The Collision Between the Web and Plant Floor Automation," 6 th . WWW Conference Workshop on Embedded Web Technology, Santa Clara, CA (April 7, 1997).
PK	MH	Microsoft Press Computer Dictionary, 3 rd Edition, page 124.
PK	MI	"Internal Statistical Quality Control for Quality Monitoring Instruments", by P. Girling et al., <u>ISA</u> , 15 pgs., 1999.
PK	MJ	Web Pages from www.triant.com (3 pgs.).
PK	MK	"Statistical Process Control (Practice Guide Series Book)", <u>Instrument Society of America</u> , 1995, pgs. 1-58 and 169-204.

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FORM PTO-1449	Atty. Docket No.: R11.12-0685	Appl. No.: 09/383,828
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor:	
	Evren D. G. PAPERS COPYRIGHT FILED	
	Filing Date August 27, 1999	Group Art: 2855

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AL	ML	"Time-Frequency Analysis of Transient Pressure Signals for a Mechanical Heart Valve Cavitation Study," ASAIO Journal, by Alex A. Yu et al., Vol. 44, No. 5, pgs. M475-M479, (September - October 1998).
MM	MM	"Transient Pressure Signals in Mechanical Heart Valve Cavitation," by Z.J. Wu et al., pgs. M555-M561 (undated).
MN	MN	"Cavitation in Pumps, Pipes and Valves," <u>Process Engineering</u> , by Dr. Ronald Young, pgs. 47 and 49 (January 1990).
MO	MO	"Quantification of Heart Valve Cavitation Based on High Fidelity Pressure Measurements," <u>Advances in Bioengineering 1994</u> , by Laura A. Garrison et al., BED-Vol. 28, pgs. 297-298 (November 6-11, 1994).
MP	MP	"Monitoring and Diagnosis of Cavitation in Pumps and Valves Using the Wigner Distribution," <u>Hydroacoustic Facilities, Instrumentation, and Experimental Techniques</u> , NCA-Vol. 10, pgs. 31-36 (1991).
MQ	MQ	"Developing Predictive Models for Cavitation Erosion," <u>Codes and Standards in A Global Environment</u> , PVP-Vol. 259, pgs. 189-192 (1993).
MR	MR	"Self-Diagnosing Intelligent Motors: A Key Enabler for Next Generation Manufacturing System," by Fred M. Discenzo et al., pgs. 3/1-3/4 (1999).
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FORM PTO-1449	Atty. Docket No.: R11.12-0685	Appl. No.: 09/383,828
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant:	
	Eryurek et al.	
	Filing Date	Group Art:
	August 27, 1999	2855

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
PK	AA	4,399,824	08/23/83	Davidson	128	736
PK	AB	5,269,311	12/14/93	Kirchner et al.	128	672
PK	AC	5,442,639	08/15/95	Crowder et al.	371	20.1
PK	AD	5,708,585	01/13/98	Kushion	364	431.061
PK	AE	09/576,719	05/23/00	Coursolle et al.		Pending
PK	AF	09/799,824	03/05/01	Rome et al.		Pending
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	Document No.	Date	Country	Class	Sub Class	Transl. Yes
PK	AI	EP 1058093-A1	05/29/99	EPO		(Abstract)
PK	AJ	DE 19930660-A1	07/02/99	Germany		(Abstract)
PK	AK	WO 00/70531	11/23/00	WIPO		X
PK	AL	DE 299 17 651 U1	12/14/00	Germany		X

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PK	AM	"A Microcomputer-Based Instrument for Applications in Platinum Resistance Thermometry," by H. Rosemary Taylor and Hector A. Navarro, Journal of Physics E. Scientific Instrument, Vol. 16, No. 11, pp. 1100-1104 (1983).
PK	AN	"Experience in Using Estelle for the Specification and Verification of a Fieldbus Protocol: FIP," by Barretto et al., Computer Networking, pp. 295-304 (1990).
PK	AO	"Computer Simulation of H1 Field Bus Transmission," by Utsumi et al., Advances in Instrumentation and Control, Vol. 46, Part 2, pp. 1815-1827 (1991).
PK	AP	"Progress in Fieldbus Developments for Measuring and Control Application," by A. Schwaier, Sensor and Actuators, pp. 115-119 (1991).
PK	AQ	"Ein Emulationssystem zur Leistungsanalyse von Feldbussystemen, Teil 1," by R. Hoyer, pp. 335-336 (1991).
PK	AR	"Simulatore Integrato: Controllo su bus di campo," by Barabino et al., Automazione e Strumentazione, pp. 85-91 (October 1993).

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
BI						
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BK						
BL						

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PL	BM	"Ein Modulares, verteiltes Diagnose-Expertensystem für die Fehlerdiagnose in lokalen Netzen," by Jürgen M. Schröder, pp. 557-565 (1990).
PL	BN	"Fault Diagnosis of Fieldbus Systems," by Jürgen Quade, pp. 577-581 (10/92).
PL	BO	"Ziele und Anwendungen von Feldbussystemen," by T. Pfeifer et al., pp. 549-557 (10/87).
PL	BP	"PROFIBUS-Infrastrukturmaßnahmen," by Tilo Pfeifer et al., pp. 416-419 (8/91).
PL	BQ	"Simulation des Zeitverhaltens von Feldbussystemen," by O. Schnelle, pp. 440-442 (1991).
PL	BR	"Modélisation et simulation d'un bus de terrain: FIP," by Song et al, pp. 5-9 (undated).

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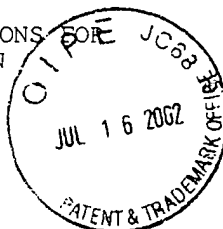
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	Eryurek et al.	
	Filing Date	Group Art:
	August 27, 1999	2855



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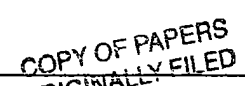
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CI						
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CM	"Feldbusnetz für Automatisierungssysteme mit intelligenten Funktionseinheiten," by W. Kriesel et al., pp. 486-489 (1987).
CN	"Bus de campo para la interconexión del proceso con sistemas digitales de control," Tecnología, pp. 141-147 (1990).
CO	"Dezentrale Installation mit Echtzeit-Feldbus," Netzwerke, Jg. Nr.3 v. 14.3, 4 pages (1990).
CP	"Process Measurement and Analysis," by Liptak et al., Instrument Engineers' Handbook, Third Edition, pp. 528-530, (1995).
CQ	
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		 Eryurek et al.	
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		August 27, 1999	2855

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
PK	AA 5,669,713	09/23/97	Schwartz et al.	374	1	
PK	AB 5,700,090	12/23/97	Eryurek	374	210	
PK	AC 5,703,575	12/30/97	Kirpatrick	340	870.17	
PK	AD 5,719,378	02/17/98	Jackson, Jr. et al.	219	497	
PK	AE 5,741,074	04/21/98	Wang et al.	374	185	
PK	AF 5,829,876	11/03/98	Schwartz et al.	374	1	
PK	AG 5,848,383	12/08/98	Yuuns	702	102	
PK	AH 5,876,122	03/02/99	Eryurek	374	183	
PK	AI 5,926,778	07/20/99	Pöppel	702	130	
PK	AJ 6,045,260	04/04/00	Schwartz et al.	374	183	
PK	AK 6,192,281	02/20/01	Brown et al.	700	2	
PK	AL 6,195,591	02/27/01	Nixon et al.	700	83	

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	Document No.	Date	Country	Class	Sub Class	Trans Yes
AM	EP 0 807 804 A2	19.11.97	EPO			X
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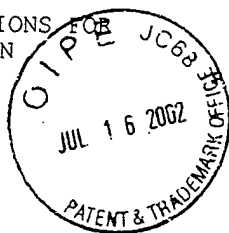
AP	"Improving Dynamic Performance of Temperature Sensors With Fuzzy Control Techniques," by Wang Lei et al., pp. 872-873 (1992).
AQ	"Microsoft Press Computer Dictionary" 2nd Edition, 1994, Microsoft Press, p. 156
AR	

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		Eryurek et al.	
		Filing Date	Group Art:
		August 27, 1999	2855



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AA	09/855,179	05/14/01	Eryurek et al.			
AB	09/852,102	5/9/01	Eryurek et al.			
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	Filing Date August 27, 1999	Group Art: 2855

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AA	4,249,164	2/3/81	Tivy	340	870.3	
AB	5,469,749	11/28/95	Shimada et al.	73	861.47	
AC	6,263,487	7/17/01	Stripf et al.	717	1	
AD	6,298,377	10/2/01	Hartikainen et al.	709	223	
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	Filing Date	Group Art:
	August 27, 1999	2855

U.S. PATENT DOCUMENTS

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PK	AA	3,855,858	12/24/74	Cushing	73	194
PK	AB	5,388,465	2/14/95	Okaniwa et al.	73	861.17
PK	AC	5,560,246	10/1/96	Bottinger et al.	73	861.15
PK	AD	5,880,376	3/9/99	Sai et al.	73	861.08
PK	AE	6,014,902	1/18/00	Lewis et al.	73	861.12
PK	AF	6,038,579	3/14/00	Sekine	708	400
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PK	AM	11083575	3/26/99	Japan			(Abstract Only)
PK	AN	60174915	9/9/85	Japan			(Abstract Only)
	AO	59163520	9/14/84	Japan			(Abstract Only)

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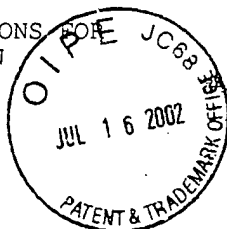
PK	AP	"Notification of Transmittal of the International Search Report or Declaration" for PCT/US01/40791.
PK	AQ	"Notification of Transmittal of the International Search Report or Declaration" for PCT/US01/40782.
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PL	AA	6,016,523	1/18/00	Zimmerman et al.	710	63
Mc	AB	6,052,655	4/18/00	Kobayashi et al.	702	184
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